

Cyclone

Broad Bandwidth Fiber Laser with Extremely Short Femtosecond Pulses

The Cyclone is a broad bandwidth femtosecond fibre laser. It provides the shortest pulses on the market generated by a fibre laser, less than 20 fs pulses. Cyclone provides outstanding peak power (>120 kW) over a wide spectrum of 950-1150 nm.

It is a cost-effective, maintenance-free femtosecond fibre laser with best-in-class performance.

These parameters allow for increased brightness and reduced photodamage, making the Cyclone laser perfect for multiphoton microscopy, SHG microscopy and a variety of other non-linear processing and spectroscopy applications.

Optical Peak Power

> 120 kW

Spectral Range

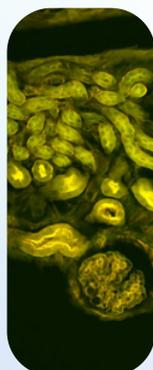
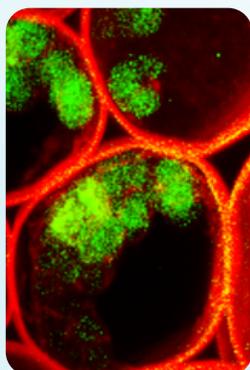
950-1150 nm

Pulse Duration

15-20 fs



/ Applications



Two-photon microscopy

SHG microscopy

Non-linear processing and spectroscopy

Cyclone

/ Technical Specifications

Spectral Range: 950-1150 nm **Optical Peak Power:** > 120 kW **Pulse Duration:** 15-20 fs

Repetition Rate:	80 MHz
Power Stability:	<0.5% over 3 h (std. dev.)
Average Power:	>150 mW
Polarization:	Unpolarized
Output Port:	Free space
Optical Output:	Collimated, single-mode across full spectrum
Beam Diameter:	2.4 mm (1/e ² at 1064 nm)
Spatial Mode Quality (M ²):	< 1.2
Cooling:	Thermoelectric cooler + air cooling
Dispersion Pre-Compensation:	-4000 fs ² to +2500 fs ²
Power Requirements:	220 V / 110V - 50/60 Hz
Operating Temperature:	20 - 30 °C
Storage Temperature:	0 - 60 °C
Dimensions:	436x560x151 (WxDxH)
Control Software:	User-friendly



436 mm

151 mm

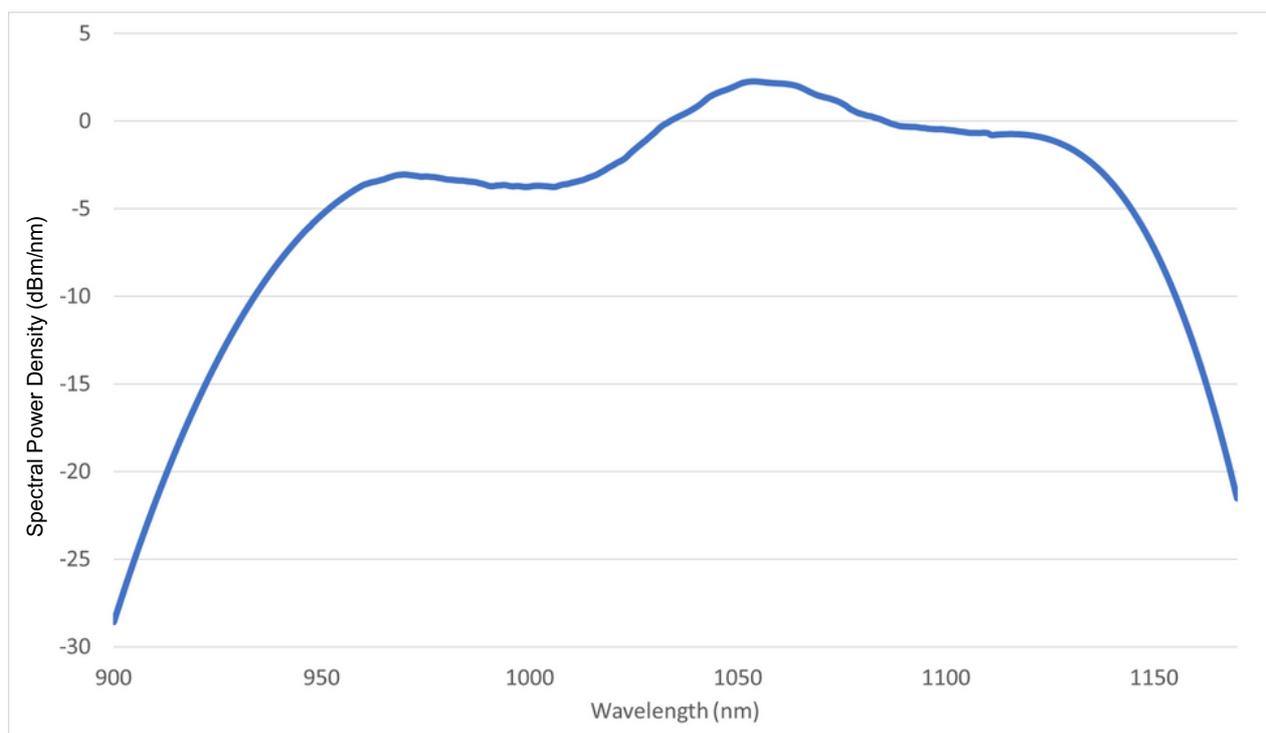


560 mm

OTHER DETAILED SPECS UNDER REQUEST

Cyclone

/ Optical Spectrum



Cyclone

/ Additional information



Laser Security:

This product is a Class 3B laser.

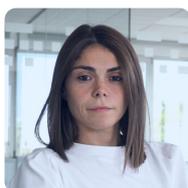
Appropriate safety measures according to such laser class should be taken in its installation and use.

Warranty:

24 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

/ FYLA contact



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